

## **Multi-Channel Redundant Wireless Network Link and device**

### **5 Abstract:**

A Multi-Channel Redundant Wireless Network Link (RWNL) device (10) comprises a plurality of wireless networking radio units, a processor unit, a radio control unit, and wired network units. Two RWNL devices communicating to each other form a multi-  
10 channel redundant wireless network communication link. The RWNL device  
aggrades the networking bandwidth of all its wireless networking units to become a  
big networking bandwidth. Network packets flow control means controls the  
networking packets transmitted between the wireless networking units and wired  
networking unit, the communication between the local wireless networking units to  
15 remote wireless networking units of the other RWNL. When the communication of  
one of the wireless networking channels failed to continue the communication, the  
flow control means will redistribute the packet flow among the remaining wireless  
networking radio units, shutdown the problem wireless networking channel, and  
report the networking status. Thus, as long as there is one wireless networking  
20 channel still functioning, the network link keeps communicating. The communication  
link has multiple redundancies.